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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/713,071	11/17/2003	Kia Silverbrook	ZF197US	9642	
24011 75	90 07/28/2004		EXAMINER		
SILVERBROO	OK RESEARCH PTY L	GORDON, RAQUEL YVETTE			
393 DARLING BALMAIN, 2	STREET 2041		ART UNIT	PAPER NUMBER	
AUSTRALIA	2011	•	2853		
			DATE MAILED: 07/28/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/713,071	SILVERBROOK, KIA					
	Office Action Summary	Examiner	Art Unit					
		Raquel Y. Gordon	2853					
Pe	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply sepecified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133) Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
St	Status							
	1) Responsive to communication(s) filed on 11/23	Responsive to communication(s) filed on 11/23/2003 (This application).						
	2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.	•					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Di	Disposition of Claims							
	4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 and 8 is/are rejected. 7) ☐ Claim(s) 7 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
A	oplication Papers							
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 23 November 2003 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Pi	iority under 35 U.S.C. § 119							
	12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
 a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/302,275. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
		4) Interview Summar Paper No(s)/Mail [Date					
3)	Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-1	52)				

Office Action Summary

Art Unit: 2853

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-6 and 8 are provisionally rejected under the judicially created doctrine of double patenting over claims 1-6 and 9 of copending Application No. 10/713093. This is a provisional double patenting rejection since the conflicting claims have not yet been patented.

The subject matter claimed in the instant application is fully disclosed in the referenced copending application and would be covered by any patent granted on that copending application since the referenced copending application and the instant application are claiming common-subject matter, as follows:

1. A micro-electromechanical device that comprises

a substrate that incorporates drive circuitry (claim 1);

an elongate drive member, the drive member being fast with the substrate at a fixed end and incorporating an electrical circuit that is in electrical contact with the drive circuitry to receive an electrical signal from the drive circuitry, the drive member being

actuator in one direction and termination of the signal results in contraction of the active portion to generate displacement of the actuator in an opposite direction (claim 4);

5. A micro-electromechanical device as claimed in claim 4, in which the conductive material of the actuator is resiliently flexible to facilitate said displacement of the actuator in the opposite direction (claim 5);

6. A micro-electromechanical device as claimed in claim 1, in which the drive member and the working member are of the same material, while the motion-transmitting member is of a different material to that of the drive member and the working member (claim 6);

8. A micro-electromechanical device that comprises

a substrate that incorporates drive circuitry (claim 1);

a plurality of elongate drive members, each drive member being fast with the

Substrate at a fixed end and incorporating an electrical circuit that is in electrical contact

with the drive circuitry to receive an electrical signal from the drive circuitry, the drive

member being configured so that a free end is displaced relative to the substrate on

a plurality of motion-transmitting members fast with respective free ends of the receipt of the electrical signal (claim 9/1);

drive members so that each motion-transmitting member is displaced together with its

associated free end (claim 9/1);

Application/Control Number: 10/713,071

configured so that a free end is displaced relative to the substrate on receipt of the Art Unit: 2853

electrical signal (claim 1);

motion-transmitting member that is fast with the free end of the drive member so

that the motion-transmitting member is displaced together with the free end (claim 1); and a working member that is fast with the motion-transmitting member to be

displaced together with the motion-transmitting member to perform work (claim 1);

2. A micro-electromechanical device as claimed in claim 1, in which the motiontransmitting member defines a first class lever and has an effort formation that is fast

with the free end of the drive member, a load formation that is fast with the working member and a fulcrum formation that is fast with the substrate, the effort and load

formations being pivotal with respect to the fulcrum formation. (claim 7/6/2/1);

3. A micro-electromechanical device as claimed in claim 1, in which the drive member is a thermal bend actuator of the type that uses differential thermal expansion to achieve

displacement (claim 3);

4. A micro-electromechanical device as claimed in claim 3, in which the thermal bend

āctuator is of a conductive material that is capable of thermal expansion and has an

active portion and a passive portion, the active portion defining the electrical circuit, in the form of a heating circuit, so that the active portion is heated and expands relative to

the passive portion on receipt of the electrical signal to generate displacement of the

Art Unit: 2853

actuator in one direction and termination of the signal results in contraction of the active portion to generate displacement of the actuator in an opposite direction (claim 4);

- 5. A micro-electromechanical device as claimed in claim 4, in which the conductive material of the actuator is resiliently flexible to facilitate said displacement of the actuator in the opposite direction (claim 5);
- 6. A micro-electromechanical device as claimed in claim 1, in which the drive member and the working member are of the same material, while the motion-transmitting member is of a different material to that of the drive member and the working member (claim 6);
- 8. A micro-electromechanical device that comprises
 - a substrate that incorporates drive circuitry (claim 1);
- a plurality of elongate drive members, each drive member being fast with the substrate at a fixed end and incorporating an electrical circuit that is in electrical contact with the drive circuitry to receive an electrical-signal-from-the-drive-circuitry, the drive member being configured so that a free end is displaced relative to the substrate on receipt of the electrical signal (claim 9/1);

a plurality of motion-transmitting members fast with respective free ends of the drive members so that each motion-transmitting member is displaced together with its associated free end (claim 9/1);

Art Unit: 2853

and a plurality of working members fast with respective motion-transmitting members so that each working member is displaced together with its associated motion-transmitting member to perform work (claim 9/1).

Furthermore, there is no apparent reason why applicant would be prevented from presenting claims corresponding to those of the instant application in the other copending application. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

Allowable Subject Matter

Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Reasons for Indication of Allowable Subject Matter

The following is a statement of reasons for the indication of allowable subject matter. The following claimed combination is not taught by the prior art of record:

7. A micro-electromechanical device as claimed in claim 6, in which the drive member and the working member are both of titanium nitride.

Art Unit: 2853

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Raquel Y. Gordon, whose telephone number is (703) 308-0022. The Examiner can normally be reached on M Tu Th and F 8:30-6:00. Effective February 11, 2003, Ex. Gordon, can be reached at the new PTO facility at (571) 272-2145.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Stephen Meier can be reached on 703-308-4896. Effective February 11, 2003, the supervisor can be reached at the new PTO facility at (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3432. A new fax number will be forthcoming.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956. A new status inquiry number will be forthcoming.

Raquel / Gordon

Primary Examiner

-Art-Unit 2853

Page 6

July 23, 2004

RAQUEL GORDON PRIMARY EXAMINER